

Numbers Worksheet

Directed numbers, order of operations and number sequences. 30 questions.

Name: _____ Date: _____ Form: _____

Part A: Directed numbers

Work out each of the following. (Q1-12)

1. $-7 + 12$

2. $-9 - 6$

3. $8 - 15$

4. -4×-6

5. $-36 \div 9$

6. $-5 + (-8)$

7. $14 - (-9)$

8. -3×7

9. $-24 \div (-6)$

10. The temperature at 6 a.m. was -3 degrees C. By noon it had risen by 9 degrees C. What was the temperature at noon?

11. A submarine is at -45 m (45 m below sea level). It rises 18 m. What is its new depth?

12. $-8 + 3 - (-5)$

Part B: Order of operations

Work out each of the following, remembering BODMAS. (Q13-24)

13. $6 + 4 \times 3$

14. $(8 + 2) \times 5$

15. $20 \div 4 + 6$

16. $5 \times 7 - 2 \times 3$

17. $12 \div (4 - 2) \times 3$

18. $3 + 2 \times (10 - 6)$ squared

19. $-4 + 10 \div 5$

20. $24 \div (2 + 4) \times 2$

21. $\frac{2}{3} + \frac{1}{4}$ (give answer as a fraction in its simplest form)

22. $\frac{5}{6} - \frac{1}{3}$ (give answer as a fraction in its simplest form)

23. $\frac{3}{4} \times \frac{2}{5}$ (give answer as a fraction in its simplest form)

24. $1 \frac{1}{2}$ divided by $\frac{3}{8}$

Part C: Number sequences

For each sequence, write the rule and the next two terms, or answer as instructed. (Q25-30)

25. 4, 9, 14, 19, ... Write the rule and the next two terms.

26. 81, 72, 63, ... Write the rule and the next two terms.

27. 3, 6, 12, 24, ... Write the rule and the next two terms.
28. 2, 4, 8, 14, 22, ... Write the next two terms and the rule.
29. 1, 4, 9, 16, ... Write the rule in words and find the 7th term.
30. The sequence 5, 9, 13, ... continues with the same rule. Find the 20th term.